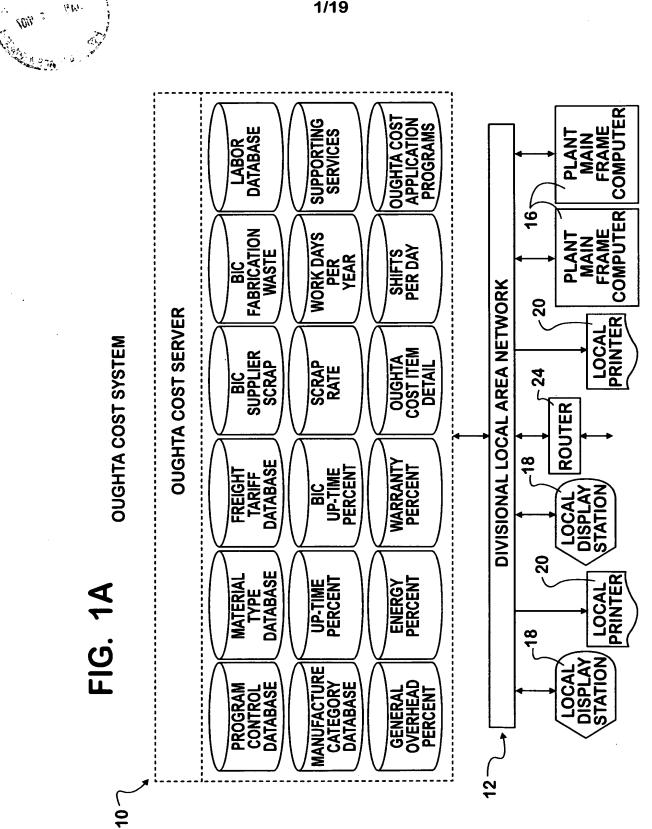
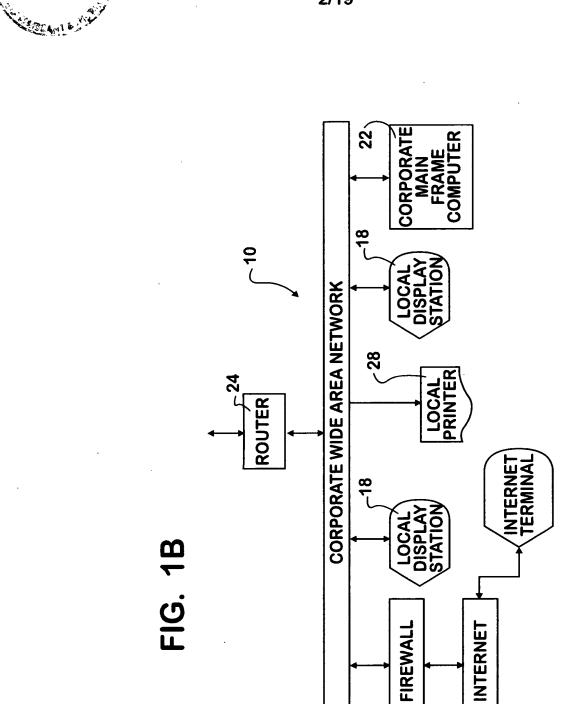
4







4			<b> </b>
E		Owner Ray Goss Bill Warren Gary Denklau Study	
st Syster		Oughta Cost Studies    Status Own   Status Own   Public Ray Good Private Bill Wall Warne of New Oughta Cost Study   Create New Study   Create New Study	
Oughta Cost System	Oughta Cost Search New Crankshaft	Existing Oughta Cost Studies  Description Status New Crankshaft Machine New Head New Core Assembly Process New Core Assembly Process Name of New Oughta Cost Copy An Existing Study Create Ne	
	Oughta Cost Sear	Program# 01122000001 10292001002 01222001004	
		Open Study Reports Exit	▼

FIG. 2

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Material	Progra	am #02010100001	Component:Sha	Program #02010100001 Component:Shaft   Component#100   Status:Public	Status: Public	1
र्झ	Material Type Supplier Scrap: Fabrication Wast	Material Type Supplier Scrap: Steel Forging Fabrication Waste: Fine Blanked Steel				
-Capital -Labor -Manufacturing -Overhead Reports Home	Freight Origin Destination	Plastic Die Cast Aluminum Brass Bar Stock Plastic Bronze Bar Stock Nitralloy Steel Bar	ck ght Needed cock stage. Stage stages stage		Returnable Containers  Dunnage	
	Materials Table					
	Material Code	Material Code Unit Of Measure	Category		Description	
	Comments					ᆕ
-				į		Þ
4						

E S



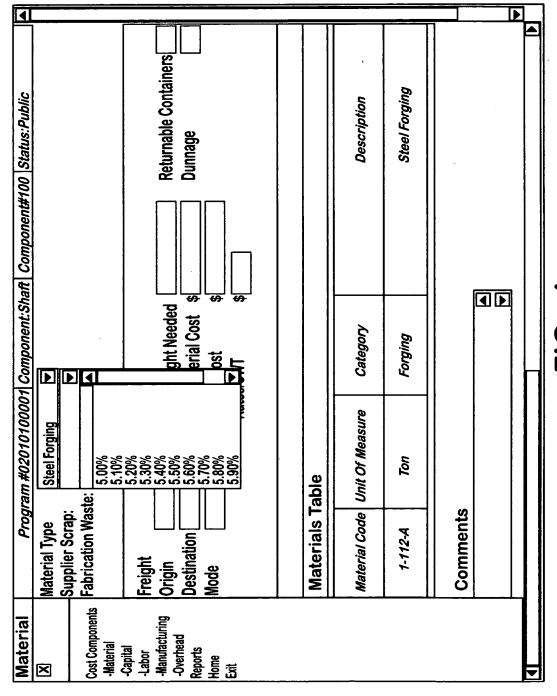


FIG. 4



Material	Progi	Program #02010100001 Component:Shaff   Component#100   Status:Public	1 Component: Shi	aff Component#10	0 Status:Public	◀
Cost Components	Material Type Supplier Scrap: Fabrication Waste:	Steel Forging 5.00% te:				L
Capital -Capital -Labor -Manufacturing -Overhead Reports Home	Freight Origin Destination	5.10% 5.20% 5.30% 5.50% 8.50%	ght Needed [erial Cost \$[ost states/CWT \$		Returnable Containers  Dunnage	
	Materials Table	able				
	Material Code	Material Code Unit Of Measure	Category		Description	
	1-112-A	Ton	Forging		Steel Forging	
	Comments					
:						<u> </u>
<b>■</b>						

FIG. 5



1						<b></b>
00 Status:Public		Returnable Containers  Dunnage	Description	Steel Forging		
Program #02010100001 Component:Shaft   Component#100   Status:Public		111			<b>A</b>	
71 Component:S		Total Weight Needed 111  Total Material Cost \$ Freight Cost \$ Rates/CWT \$	Category	Forging		
am #0201010000	Steel Forging 5.00% e: 5.00%		Material Code Unit Of Measure	Ton		
Progr	Material Type Steel F. Supplier Scrap: 5.00% Fabrication Waste: 5.00%	Freight Origin Destination California Mode Truck Loac Truck Loac Less Than Rail Boat	Material Code	1-112-A	Comments	
Material	X Cost Components	-Material -Capital -Labor -Manufacturing -Overhead Reports Home Exit				4

FIG. 6

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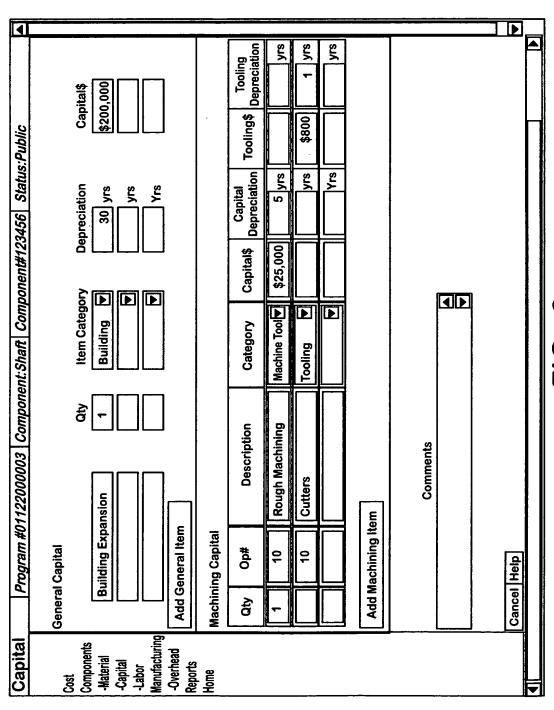
4						_لــ		┯
Program #02010100001 Component:Shaft   Component#100   Status:Public   Steel Forging		\$ 111 Returnable Containers \$ 51.06 Dunnage \$ 1.11 \$ 1.00		Description	Steel Forging Crankshaft for 2003 model year V8			4
Component:Sha		t Neederal Cost		Category	Forging			
am #02010100001	5.00% le: 5.00%		able	Material Code Unit Of Measure	Ton		This study has only one component.	
<i>Progr</i> Material Type	Supplier Scrap: 5.00% Fabrication Waste: 5.00%	Freight Origin Destination California Mode Truck Loac	Materials Table	Material Code	1-112-A	Comments	This study has on	
Material 🗵	Cost Components -Material	-Capital -Labor -Manufacturing -Overhead Reports Home Exit			•			4

**FIG. 7** 



4					ī	]									D
us:Public	achining 🔻	Employee Benefits			\$ 3.50	\$ 3.50		\$ 4.00	\$ 4.00	\$ 4.00	\$ 3.50	\$ 3.00	\$ 4.00	\$ 4.50	\$ 4.00
3456 Stai	h 🔻 Standard Machining 💌	Employee Benefit (% of Labor Rate)	126	% 09	%	%		%	<b>%</b>	%	%	%	%	%	%
ponent#12	Region: North Skill Level:	Default Labor Rate			\$ 11.00	\$ 9.00		\$ 8.00	\$ 11.00	\$ 8.00	\$[7.00]	\$ 6.00	\$ 8.00	\$ 00.00	\$ 14.00
Shaft Com		Operation# (OP#)		9	20			10	30	05	10		20	20	
omponent:	0.00	Number Required		က	8	0		5		2	1	25	25	25	1
Program #01122000001   Component:Shaft   Component#123456   Status:Public	Supporting Services: Machining Type: Tra Additional Labor \$:	Employee Type	DIRECT LABOR	Machine Operators	Machine Operators	Assembly Test	INDIRECT LABOR	Material Handling	Shipping	Receiving	Line Stocking	Material Scheduler	Inspection	Quality	Supervisor
Program #			-												
Labor	Cost Components -Material -Capital -Labor -Manufacturing	-Overhead Reports Home Save & Exit						_							





**EG.** 9

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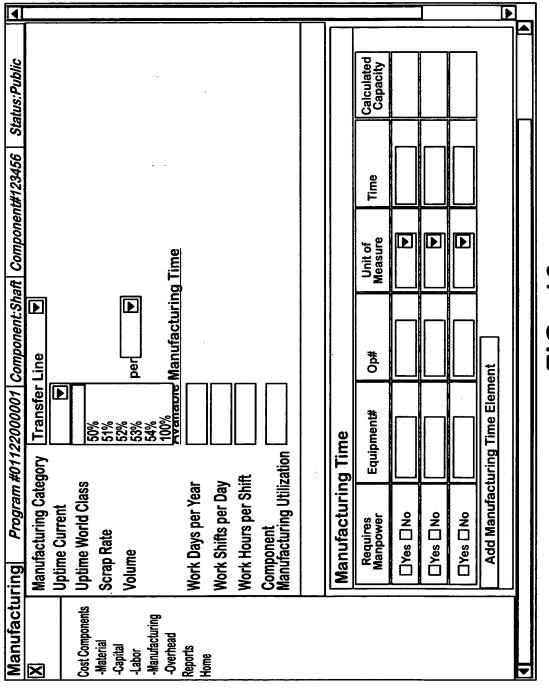


FIG. 10



1										Þ	
tus:Public						Calculated Capacity					
Program #01122000001 Component:Shaft   Component#123456   Status:Public						Time					
haft Compone		آ] ino Time				Unit of Measure	<b>▶</b>				
Component:S	r Line	perManufacturing Time				#do				nent	
#01122000001	jory Transfer Line 50% ▼	70% 75% 80% 85% 90%		ation	y Time	Equipment#				Add Manufacturing Time Element	
	Manufacturing Category Uptime Current	optime world class Scrap Rate Volume	Work Days per Year Work Shifts per Day Work Hours per Shift	Component Manufacturing Utilization	Manufacturing Time	Requires Manpower	□Yes □No	□Yes □No	□Yes □ No	Add Manufact	
Manufacturing		Cost Components Up Material Sci Capital Vol Labor Manufacturing Overhead	Reports Wo	og							4

FIG. 11

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1														<u>.                                    </u>		Þ	
tus:Public	-											Calculated Capacity					
Program #01122000001 Component:Shaft   Component#123456  Status:Public												Time					
haft   Compone						ng Time						Unit of Measure	<b>▶</b>	<b>▶</b>			
Component:SI	Line 🔻				ber 🔻	Manufacturing Time	_	_				#d0				ent	
71122000001	ry Transfer Line	<b>≥</b> 0%	<b>→</b> %06		5.00%	20% 20% 20%	.5.40%	2.60%	5.70% 5.80%	<u> </u>	Time	Equipment#				ing Time Elem	
	Manufacturing Category	Uptime Current	Uptime World Class	Scrap Rate	Volume		Work Days per Year	Work Shifts per Day	Work Hours per Shift	Component Manufacturing Utilization	Manufacturing Time	Requires Manpower	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	Add Manufacturing Time Element	
Manufacturing	×		Cost Components U			-Manufacturing -Overhead	Reports W		<u> </u>	UΣ						' <u></u>	V

FIG. 12



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atus:Public							Calculated Capacity					
ent#123456 St							Time					
Program #01122000001 Component:Shaft   Component#123456   Status:Public			ing Time				Unit of Measure	<b>▶</b>	sec	min hour		
Component:S	r Line	per Year	Available Manufacturing Time	·			#d0	05			nent	
#01122000001	Trans	90% 00% 50,000	Available 240	8 2	ation	J Time	Equipment#	12345			ıring Time Eler	
	Manufacturing Category	Optime Current Uptime World Class Scrap Rate Volume	Work Days per Year	Work Shifts per Day Work Hours per Shift	Component Manufacturing Utilization	Manufacturing Time	Requires Manpower	☑ves ☐ No	☐Yes ☐No	□Yes □No	Add Manufacturing Time Element	
Manufacturing	Mar 115	क	-Manufacturing -Overhead Reports Home	ow Wo	S S S	2						<b> </b>

FIG. 13



1							Þ	L
			<b>-</b>					<b>^</b>
Status: Public			Calculated Capacity	86,400	86,400	86,400		
ent#123456			Time	80	80	1.3		
aft Compone	g Time		Unit of Measure	sec 🛋	sec 🛋	min 🔻		
Program #01122000001 Component:Shaft   Component#123456   Status:Public	Transfer Line		#dO	05	10	20	ent	
01122000001		Time	Equipment#	123456	246810	357159	ring Time Elem	
	Manufacturing Category Uptime Current Uptime World Class Scrap Rate Volume Work Days per Year Work Shifts per Day Work Hours per Shift Component Manufacturing Utilization	Manufacturing Time	Requires Manpower	☐Yes ☑No	☑Yes ☐ No	☑Yes □No	Add Manufacturing Time Element	
uring		Ma			N	Ø		
Manufactu	Cost Components -Material -Capital -Labor -Manufacturing -Overhead -Neports -Neme							▼

FIG. 14

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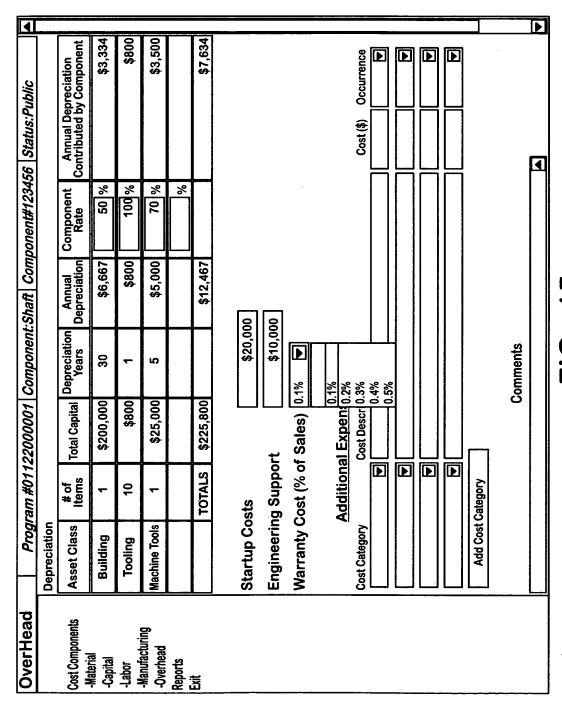


FIG. 15

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	8	-	4	0	6		4		
Program #01122000001 Component:Shaft   Component#123456   Status:Public*	<i>)</i>	Annual Depreciation Contributed by Component	\$3,334	008\$	009'£\$		\$7,634	Cost (\$) Occurrence	<b>4</b>
34		ŧ	%	%	%	%			
onent#12		Component Rate	20 %	100 %	70 %				
Shaft Com		Annual Depreciation	\$6,667	\$800	\$5,000		\$12,467		
Component:		Depreciation Years	30	1	5			\$20,000 \$10,000 1%	Comments
122000001		Total Capital	\$200,000	\$800	\$25,000		\$225,800	ng Support Cost (% of Sales) 0.1% Additional Expenses Cost Description Inead Cost Description	
ram #011		# of Items	1	10	1		TOTALS	ig Suppo Cost (% o Additional	
Prog	Depreciation	Asset Class	Building	Tooling	Machine Tools			Startup Costs  Engineering Support  Warranty Cost (% of Sales) 0.1%  Additional Expenses  Cost Category  Cost Description  Pershable Tooling  MRO  General Overhead  Energy Other	
OverHead		Cost Components	-Capital	Labor	-manufacturing -Overhead	Reports	באונ		

FIG. 16



	▼ 1201200001 10292000002 01222001004 02102001001		
	Select Program: Program Description: Component Control#: Component:		
rts	<ul> <li>Standard Report Package</li> <li>Material</li> <li>Capital</li> <li>Manufacturing</li> <li>Summary</li> </ul>	Cancel Help	
Reports		Can	
	Cost Components -Material -Capital -Labor -Manufacturing -Overhead Reports Home		



	Select Program: Program Description: Component Control#: Selected Items:	01122000001 New Crankshaft		
Reports	<ul> <li>Standard Report Package</li> <li>✓ Material</li> <li>☐ Labor</li> <li>☐ Capital</li> <li>✓ Manufacturing</li> <li>✓ Overhead</li> <li>✓ Summary</li> </ul>		Print Preview Print Export to Access Export to Excel Inquiries	
	Cost Components -Material -Capital -Labor -Manufacturing -Overhead -Reports -Home			  -

FIG. 18

Page 2 of 19 D-5045